

## **Attachment 1. Sample Alteration Form**

Project Name and Number: Rainier Common PCB (TSCA) inspection HWD-208A  
Material to be Sampled: PCB Bulk Product and PCB Remediation waste – totes and sweepings  
Measurement Parameter: PCB Aroclors

### **Standard Procedure for Field Collection & Laboratory Analysis (cite reference):**

Storage totes are on-site at the facility which contain PCB remediation waste. Approx 6-8 totes are expected to be a mostly water with sediment layer matrix at the bottom. Samples will be collected from these for both water (Coliwasa sampler) and sediment (R10ESU engineered device) analysis for PCB Aroclors. It is expected that one water sample and one sediment sample will be collected from each tote beginning with the water so as not to disturb the liquid portion of the sample. The entire tube volume sampled from the R10 ESU sediment sampling device will be collected and sent to the lab. The 'sediment' sampled portion of the tote will likely contain high water content, which will be separated at the lab and not in the field so that all suspended sediment material is captured (instead of settling and decanting in field). The water portion of the sample will be collected using a Coliwasa, emptied into a 1L glass container (for sample homogeneity), and then subsampled into 40mL VOA vials for the laboratory analysis.

Two additional bins of 'sweepings' are expected to be stored on-site containing solid (soil/sed) and paint chip sweepings from facility remediation. Lead concentrations in the sweepings may be elevated. Planned sampling of the sweepings is to collect a composite of 9 samples from a 3x3 grid using a stainless steel coring device. The sample will be composited in a stainless steel bowl until homogeneous and then an aliquot will be collected and placed in a 4oz jar for the laboratory.

### **Reason for Change in Field Procedure or Analysis Variation:**

Additional sample collection information provided for sampling these specific containers. Analytical methods changed per the lab and project management request to fully extract the matrices sampled. Standard Generic QAPP completeness criteria is 85% due to the often complex sample matrices for TSCA/PCB inspection samples. The goal for this project is 100% due to the critical nature of the sample results.

### **Variation from Field or Analytical Procedure:**

Final selection of the appropriate method will be made after sampling.

#### **Water**

Sampling containers: 2x40mL amber glass VOA vials, 5x40mL for samples designated for lab QC  
Analytical prep Methods: Preferred: 40mL vial: 3511 Organic Compounds in water by Microextraction  
250-500mL: 3510 Separatory Funnel Liquid-Liquid Extraction or 3535 Solid Phase Extraction

#### **Sediment**

Sampling Containers: 1x500mL wide mouth amber glass jar, no extra volume required for lab QC. Larger containers may be used (1L) but only 500mL sample volume is needed.  
Analytical prep Method: 3580 Waste Dilution, with the same modifications previously used on Rainier Commons paint chips. (The sediment is understood to be jet cleanings from storm sewer cleaning and as such may contain paint chips.

#### **Paint chips**

Sampling containers: 4oz material – 1 amber glass jar, no extra volume required for lab QC  
Analytical prep method: 3580 Waste Dilution, with the same modifications previously used on Rainier Commons paint chips.

#### **Equipment Wipe**

An alcohol prep pad wipe will be used, as an effective and easy equipment blank for both the samplers and lab. Wipes are reported as total ug on the wipe.

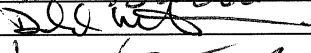
Reporting Limits: Water decontamination standard is 0.5 ppb (lab MRL 10ppb in clean matrix).  
Sediment/sweepings decision criteria is 50ppm (lab MRL 1ppm in clean matrix).

**Special Equipment, Materials or Personnel Required:**

Coliwas, R10 ESU engineered vacuum/ball check valve sediment sampling tube for sampling of remediation waste sediment at the bottom of storage tote likely containing mostly liquid, stainless steel core sampling device. R10 ESU credentialed sampling staff (Brent Richmond) will be leading the sampling.

Initiators Name: Jennifer Crawford, RSCC  Date: 4-13-12

Project Manager: Dave Bartus  Date: 4-13-12

QA Officer: Don Matheny  Date: 4-13-12

Tristen Gardner 

4/13/12

## Attachment 2. Corrective Action Form

Project Name and Number:

Sample Dates Involved:

Measurement Parameter:

Acceptable Data Range:

Problem Areas Requiring Corrective Action:

Measures Required to Correct Problem:

Means of Detecting Problems and Verifying Correction:

Initiators Name: \_\_\_\_\_ Date:

Project Officer: \_\_\_\_\_ Date:

QA Officer: \_\_\_\_\_ Date:

### Attachment 3: TSCA PCB Site-Specific Inspection Plan (PSSIP)

This PSSIP will be prepared and used in conjunction with the Generic PCB QAPP, Revision 5.0, Rev. 02/09 for collecting samples of opportunity during an announced and unannounced inspections. Please refer to the Generic QAPP for specific details regarding PSSIP. Note: Table -1 DQOs : Do not remove analytes from this generic table. Fill in the number of samples for each applicable analysis/matrix. If the number of samples column is left blank for a particular analysis, the RSCC, QAO and LAB will presume that the analysis is not required for the project. Submit the PSSIP to the RSCC for laboratory coordination/sample numbers/project information and to the QAO for review and concurrence. This form is E-mailed to [crawford.jennifer@epa.gov](mailto:crawford.jennifer@epa.gov).

Project Account Code	Sample Numbers	EPA Inspectors/Phone Numbers/Mail Stop
HWD-208A	12154400-4449	Tristen Gardner / 206-553-6240 / OCE-084
	For the week of April8-14, 2012	

Site Name/Facility Type:	Rainier Commons
Address:	3100 Airport Way South, Seattle, WA
Contact Person:	Vered Misrahi
E-mail Address /Phone Number:	vered@arieldevelopment.com 206.948.2821

#### COOPERATING AGENCIES/PARTIES INVOLVED:

Contact Person	Agency	Phone Number
Dave Bartus	EPA R10 (AWT-122)	206-553-2804
Brent Richmond	EPA R10 (OEA ESU – LAB)	360-871-8711

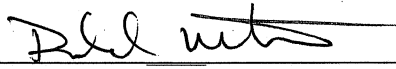
#### TENTATIVE PROJECT SCHEDULE

Activity	Estimated Start Date	Estimated Completion Date	Comments
Mobilize to Site	4-13-12	4-13-12	
Sample Collection	4-13-12	4-13-12	
Laboratory Receipt of Samples	4-13-12	4-13-12	Preliminary results requested when analysis is complete.
Target Completion Date	6-13-12		

#### DATA DISTRIBUTION

Name and Mail Stop	Electronic	Hard Copy
Tristen Gardner	Gardner.tristen@epa.gov	
Dave Bartus (Project Manager)	Bartus.dave@epa.gov	

#### FOR QAO REVIEW ONLY

QA Reviewer Concurrence with the PSSIP : Don Matheny  Date : 4-13-12  
Print Name and Signature

If the QA reviewer has concerns and comments, a signed copy of the comments should be sent to the FPO, CO, RSCC and the laboratory. The comments should be attached to the project file.

**Table 1 - Data Quality Objectives Summary**

Analytical Group	Number of Sample <sup>1</sup> s	# of QA Samples:	MS / MSD Samples	Matrix	EPA Method	Method Detection Limits	Accuracy	Precision (RPD)	Completeness	Preservation	Volume, Container	Holding Time (days)
<b>Laboratory Measurements</b>												
PEST/PCBs	12**	1 dup/1 rinse per day of sample collection	1/20 or 1 per batch	Soil**	8082	1 ppm	50-150	50	85	ice	4 oz wide-mouth glass jar	14 days extraction 40 days analysis
PEST/PCB	9**	1 dup/1 rinse per day of sample collection	1/20 or 1 per batch	water	8082	1ppm*	50-150	50	85		1 Liter	7 days extraction 40 days analysis
PEST/PCB	1 - equip. wipe	1 dup/1 rinse per day of sample collection	1/20 or 1 per batch	wipes	8082	total ug/wipe	50-150	50	85		wide mouth glass jars	14 days extraction 40 days analysis
PEST/PCB		1 dup/1 rinse per day of sample collection	1/20 or 1 per batch	concrete	8082	1 ppm	50-150	50	85		wide mouth glass jars	14 days extraction 40 days analysis
PEST/PCB		1 dup/1 rinse per day of sample collection	1/20 or 1 per batch	oil	8082	1 ppm	50-150	50	85		wide mouth glass jars	14 days extraction 40 days analysis
PEST/PCB		1 dup/1 rinse per day of sample collection	1/20 or 1 per batch	PUF	TO10A	1 ppm	50-150	50	85		wide mouth glass jars	14 days extraction 40 days analysis
<b>Field Measurements</b>												
PCB screen		1 dup per batch	1/20 or 1 per batch	transformer oil	9079	5 ppm	50-150	50	85		glass jars	Analyze in the field No HT
pH		1 dup per batch	1/20 or 1 per batch	solid/liquid	9045C	NA	∇ 0.1 pH Unit	∇ 0.1 pH Unit	100%	None Required	Field Sample Container	Analyze Immediately

<sup>1</sup> - Sample number includes QA samples and Matrix Spike / Matrix Spike Duplicate (MS/MSD) samples listed in the next two columns. P, G - Plastic, Glass. NOTE: Include one temperature blank per ice chest shipped.  
 \* 1ppm Approved Generic TSCA QAPP SSIP RL. For this project we expect a 10ppb MRL in clean water matrix. (May be higher if complex matrix interferences are present.)

\*\* See SAF Appendix for updated matrix, anticipated analytical preparation methods and containers which will be used for this project. Selection of the final methods will be made after sampling is complete.